

## Technical information, January 2021

# Exolon® Overview fire classifications

### Overview classifications:

Contribution to fire	Europe	Germany	France	GB	Italy
<b>not burning</b>	A1 A2	A1 A2	M0 (d0)		0 0
<b>low burning</b>	B C	B1	M1 (d0) M2 (d0)	0 1	1
<b>normal burning</b>	D E	B2	M3		2 3
<b>high burning</b>		B3	M4		4 5
<b>additional classification</b>	<u>Droplets:</u> d0 - no droplets occur within 600s d1 - no droplets, persisting >10s, occur within 600s d2 - not d0 or d1 or ignites the paper in the ignitability test (EN ISO 11925-2) <u>Smoke:</u> s1 - SMOGRA* ≤ 30 m <sup>2</sup> /s <sup>2</sup> and TSP600s** ≤ 50 m <sup>2</sup> s2 - SMOGRA ≤ 180 m <sup>2</sup> /s <sup>2</sup> and TSP600s ≤ 200 m <sup>2</sup> s3 - not s1 or s2 * SMOGRA: Smoke Growth Rate ** TSP600s: Total Smoke Production within 600s	nbd = no burning droplets	y : is added to the classification of all thermoplastics if any softening and/or other behaviour occurs, that may affect the flame spread (e.g. class 1y)		

Note: Product may change its burning behaviour due to ageing and weathering. The indicated fire rating was tested on new / unweathered Product in accordance with the indicated fire classification standards. Please verify whether Product fulfils your application requirements.

Europe, EN 13501-1 Thickness (mm)	1	2	3	4	5	6
Exolon® GP clear 099	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
Exolon® GP white 150	B-s1,d0	B-s1,d0	B-s1,d0			
Exolon® UV clear 2099	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
Exolon® UV white 2150	B-s1,d0	B-s1,d0	B-s1,d0			
Exolon® UV CC 2655	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
Exolon® GP / NR / UV (all colors)	B-s2,d0	B-s2,d0	B-s2,d0	B-s2,d0	B-s2,d0	B-s2,d0

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Germany, DIN 4102, B-Classifications											
Thickness (mm)	0.75	1	2	3	4	5	6	8	10	12	15
Exolon® GP clear 099		<b>B1</b>	<b>B1</b>	<b>B1</b>	<b>B1</b>	<b>B1</b>	<b>B1</b>				
Exolon® GP white 150			<b>B1</b>	<b>B1</b>							

Germany, DIN 5510, Preventive fire protection in railway vehicles						
Thickness (mm)	2	3	4	5	6	8
Exolon® GP clear 099		S3, SR2, ST1	S3, SR2, ST1	S3, SR2, ST1	S3, SR2, ST1	S3, SR2, ST1
Exolon® FR clear 099				S3, SR2, ST2		

S = Fire behaviour :

S4 : damaged length <20 cm

S3 : damaged length <25 cm

S2 : damaged length <30 cm

SR = Smoke development

SR2 : Integral of light reduction <50% min

SR1: Integral of light reduction <100% min

ST : Burning droplets

ST2 : no droplets or no burning droplets

ST1 : burning droplets

France, NF P 92-501, -504 & -505 (M-classification), NF F 16-101 & -102 (F-classification)											
Thickness (mm)	0.75	1	2	3	4	5	6	8	10	12	15
Exolon® GP clear 099		M2	M2	M2	M2	M2	M2	M2	M2	M2	M2
		F1	F1	F1	F1	F1	F1	F1	F1	F1	F1
Exolon® UV clear 2099			M2	M2	M2	M2	M2	M2	M2	M2	M2
			F2	F2	F2	F2	F2	F2	F2	F2	F2
Exolon® UV bronze 2850				M2	M2	M2	M2				
				F1	F1	F1	F1				
Exolon® AR clear 8099			M2	M2	M2	M2	M2	M2	M2	M2	
			F1	F1	F1	F1	F1	F1	F1	F1	

UK, BS 476, part 7											
Thickness (mm)	0.75	1	2	3	4	5	6	8	10	12	
Exolon® UV clear 2099			1y	1y	1y		1y				1y
Exolon® UV white 2130						1y					
Exolon® UV CC green 2655				1y							1y

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USA, UL 94											
Thickness (mm)	0.75	1	2	3	4	5	6	8	10	12	15
Exolon® GP clear 099	V2	V2	HB	HB	HB	HB	HB	HB	V0	V0	V0
Exolon® UV clear 2099	V2	V2	HB	HB	HB	HB	HB	HB	V0	V0	V0
Exolon® AR clear 8099	V2	V2	HB	HB	HB	HB	HB	HB	V0	V0	V0
Exolon® FR clear 099			V0	V0	V0	V0	V0	V0	V0	V0	V0

Belgium, NBN S 21-203, acc. to BS 476 part 7										
Thickness (mm)	0.75	1	2	3	4	5	6	8	10	12
Exolon® UV clear 2099			A1	A1	A1		A1			A1
Exolon® UV white 2130						A1				
Exolon® UV CC green 2655				A1						A1

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